

Exam. Code : 103203

Subject Code : 1288

B.A./B.Sc. 3rd Semester

BOTANY

**Paper—III B (Structure, Development &
Reproduction in Flowering Plants—II)**

Time Allowed—3 Hours]

[Maximum Marks—35

Note :—Attempt FIVE questions, selecting ONE question from each section. The fifth question may be attempted from any section. Each question carries 7 marks.

SECTION—A

1. Discuss in detail structural modifications in roots for respiration and interaction with microbes. 7
2. Describe different types of primary tissues found in plants, giving functions of each kind. 7

SECTION—B

3. Discuss in detail development of a flower from a vegetative shoot. 7
4. Describe different techniques of budding. In what ways is budding different from grafting ? 7

SECTION—C

5. Draw transverse section of a tetra-sporangiate anther to show its various parts. Also give function of each part. 7
6. (a) Define self-incompatibility. Why does the self-pollination not lead to seed formation in self-incompatible species ?
- (b) Discuss the role of tapetum in the development of a pollen grain. 3.5+3.5

SECTION—D

7. Describe in detail development of seed from ovule. 7
8. Discuss in length different mechanisms adopted by plants for seed dispersal. What is the biological significance of seed-dissemination ? 7